

Donald R Mccrimmon

List of Publications by Year in descending order

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48
papers

3,036
citations

172457

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66
docs citations

66
times ranked

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citing authors

#	ARTICLE	IF	CITATIONS
1	A Leptin-Mediated Neural Mechanism Linking Breathing to Metabolism. <i>Cell Reports</i> , 2020, 33, 108358.	6.4	26
2	Teaching an intuitive derivation of the clinical alveolar equations: mass balance as a fundamental physiological principle. <i>American Journal of Physiology - Advances in Physiology Education</i> , 2020, 44, 145-152.	1.6	2
3	Activation of astrocytic PAR1 receptors in the rat nucleus of the solitary tract regulates breathing through modulation of presynaptic TRPV1. <i>Journal of Physiology</i> , 2018, 596, 497-513.	2.9	11
4	pH modulation of glial glutamate transporters regulates synaptic transmission in the nucleus of the solitary tract. <i>Journal of Neurophysiology</i> , 2013, 110, 368-377.	1.8	25
5	Acid-sensing ion channels contribute to chemosensitivity of breathing-related neurons of the nucleus of the solitary tract. <i>Journal of Physiology</i> , 2012, 590, 4761-4775.	2.9	36
6	Caudal nuclei of the rat nucleus of the solitary tract differentially innervate respiratory compartments within the ventrolateral medulla. <i>Neuroscience</i> , 2011, 190, 207-227.	2.3	69
7	Turning the PAGE on central control of the exercise pressor reflex in humans. <i>Journal of Applied Physiology</i> , 2011, 110, 867-868.	2.5	0
8	Biocompatible Nanoscale Dispersion of Single-Walled Carbon Nanotubes Minimizes in vivo Pulmonary Toxicity. <i>Nano Letters</i> , 2010, 10, 1664-1670.	9.1	183
9	Galanin (GAL)-immunoreactive (ir) axons closely appose parvalbumin (Parv)-immunoreactive neurons in the rat ventral respiratory column (VRC). <i>FASEB Journal</i> , 2010, 24, 1064.9.	0.5	0
10	Voltage-dependent calcium signaling in rat cerebellar unipolar brush cells. <i>Neuroscience</i> , 2009, 162, 702-712.	2.3	13
11	The chemical neuroanatomy of breathing. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 3-11.	1.6	170
12	Overview: The neurochemistry of respiratory control. <i>Respiratory Physiology and Neurobiology</i> , 2008, 164, 1-2.	1.6	14
13	3 Splice. , 2008, , 1-1.		0
14	Reflexively inhibiting respiratory drive. <i>Journal of Physiology</i> , 2007, 580, 3-3.	2.9	2
15	Central pathways of pulmonary and lower airway vagal afferents. <i>Journal of Applied Physiology</i> , 2006, 101, 618-627.	2.5	392
16	Sodium Currents in Medullary Neurons Isolated from the Pre-Botzinger Complex Region. <i>Journal of Neuroscience</i> , 2005, 25, 5159-5170.	3.6	75
17	Capra, eupnea, dyspnea, apnea: respiratory rhythms and the pre-Böttinger complex in the goat. <i>Journal of Applied Physiology</i> , 2004, 97, 1618-1619.	2.5	1
18	Converging Functional and Anatomical Evidence for Novel Brainstem Respiratory Compartments in the Rat. <i>Advances in Experimental Medicine and Biology</i> , 2004, 551, 101-105.	1.6	7

#	ARTICLE	IF	CITATIONS
19	Neonatal stress alters adult breathing. <i>Journal of Physiology</i> , 2004, 554, 591-591.	2.9	6
20	Concept Mapping in Pulmonary Physiology Using Pathfinder Scaling. <i>Advances in Health Sciences Education</i> , 2004, 9, 225-240.	3.3	13
21	Intrinsic bursting activity in the pre-Bötzing Complex: Role of persistent sodium and potassium currents. <i>Biological Cybernetics</i> , 2004, 90, 59-74.	1.3	58
22	The rhombencephalon and breathing: a view from the pons. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 103-104.	1.6	12
23	Pontine influences on breathing: an overview. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 105-114.	1.6	114
24	Parabrachial lateral pontine neurons link nociception and breathing. <i>Respiratory Physiology and Neurobiology</i> , 2004, 143, 215-233.	1.6	43
25	Resurgent Na Currents in Four Classes of Neurons of the Cerebellum. <i>Journal of Neurophysiology</i> , 2004, 92, 2831-2843.	1.8	90
26	On the opiate trail of respiratory depression. <i>American Journal of Physiology - Regulatory Integrative and Comparative Physiology</i> , 2003, 285, R1274-R1275.	1.8	33
27	Sodium Currents in Neurons From the Rostrolateral Medulla of the Rat. <i>Journal of Neurophysiology</i> , 2003, 90, 1635-1642.	1.8	51
28	Differential Processing of Excitation by GABAergic Gain Modulation in Canine Caudal Ventral Respiratory Group Neurons. <i>Journal of Neurophysiology</i> , 2003, 89, 862-870.	1.8	18
29	Short-term plasticity of descending synaptic input to phrenic motoneurons in rats. <i>Journal of Applied Physiology</i> , 2003, 94, 1421-1430.	2.5	38
30	Defining ventral medullary respiratory compartments with a glutamate receptor agonist in the rat. <i>Journal of Physiology</i> , 2003, 548, 859-874.	2.9	81
31	Respiratory rhythm generation: converging concepts from in vitro and in vivo approaches?. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 43-56.	1.6	36
32	Gain modulation of respiratory neurons. <i>Respiratory Physiology and Neurobiology</i> , 2002, 131, 121-133.	1.6	46
33	Parvalbumin in respiratory neurons of the ventrolateral medulla of the adult rat. <i>Journal of Neurocytology</i> , 2002, 31, 693-717.	1.5	80
34	Respiratory Rhythm Generation: Pre-Bötzing Neuron Discharge Patterns and Persistent Sodium Current. <i>Advances in Experimental Medicine and Biology</i> , 2001, 499, 147-152.	1.6	11
35	Normal breathing requires pre-Bötzing complex neurokinin-1 receptor-expressing neurons. <i>Nature Neuroscience</i> , 2001, 4, 927-930.	14.8	481
36	Unraveling the mechanism for respiratory rhythm generation. <i>BioEssays</i> , 2000, 22, 6-9.	2.5	41

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37	Pattern Formation And Rhythm Generation In The Ventral Respiratory Group. Clinical and Experimental Pharmacology and Physiology, 2000, 27, 126-131.	1.9	50
38	Medical and Veterinary Students's Structural Knowledge of Pulmonary Physiology Concepts. Academic Medicine, 2000, 75, 362-368.	1.6	11
39	Modulation of the synaptic drive to respiratory premotor and motor neurons. Respiration Physiology, 1997, 110, 161-176.	2.7	79
40	Respiratory Neurons Mediating the Breuer-Hering Reflex Prolongation of Expiration in Rat. Journal of Neuroscience, 1996, 16, 6526-6536.	3.6	132
41	Pulmonary stretch receptor afferents activate excitatory amino acid receptors in the nucleus tractus solitarius in rats.. Journal of Physiology, 1993, 464, 725-745.	2.9	93
42	Neurones in a discrete region of the nucleus tractus solitarius are required for the Breuer-Hering reflex in rat.. Journal of Physiology, 1990, 427, 261-280.	2.9	152
43	Role of the ventrolateral region of the nucleus of the tractus solitarius in processing respiratory afferent input from vagus and superior laryngeal nerves. Experimental Brain Research, 1987, 67, 449-59.	1.5	36
44	Microinjection of (sub)picomoles of excitatory amino acids into cat or rat brainstem alters respiratory and cardiovascular motor control. Journal of Neuroscience Methods, 1986, 17, 186-187.	2.5	1
45	Effect of synchronous activation of medullary inspiratory bulbo-spinal neurones on phrenic nerve discharge in cat.. Journal of Physiology, 1984, 347, 241-254.	2.9	34
46	Monoamine neurotransmitter metabolism during acclimatization to hypoxia in rats. Respiration Physiology, 1983, 54, 79-96.	2.7	70
47	Cardiovascular response to interval and continuous training in women. European Journal of Applied Physiology and Occupational Physiology, 1979, 41, 187-197.	1.2	34
48	Serotonin and the control of ventilation in awake rats.. Journal of Clinical Investigation, 1979, 64, 689-693.	8.2	66